

PROJECT DESCRIPTION

GENERAL

This project involves the installation of new Hazard Identification Beacons (School Flashers) and associated signing prior to the intersection of MD 177 and Outing Avenue in Anne Arundel County.

Also included in this project is the installation of school crossing signing at the intersection of MD 177 and Outing Avenue. MD 177 is assumed to run in an east-west direction.

OPERATION

H.I.B.'s (School Flashers) shall be installed both east and west of Outing Avenue along MD 177. School Crossing signs shall be installed at the intersection of MD 177 and Outing Avenue. The H.I.B. east of Outing Avenue will be tied into the existing cabinet/controller at the signal of MD 177 and Catherine Avenue. The H.I.B. west of Outing Avenue will have pole mounted service.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9076	Cabinet "G" type - pole mount	1 EA
9087	Controller ASC II w/ telemetry	1 EA
9089	Sheet aluminum signs to consist of:	153 SF
	M6-2 "arrow (symbol)" sign (15" x 21") ground mounted.	8 EA
	S1-1 "SCHOOL" sign (36" x 36") ground mounted.	10 EA
	S4-3 "SCHOOL" sign (12" x 36") ground mounted.	2 EA
	S5-1 "SCHOOL SPEED LIMIT 35 WHEN FLASHING" (48" x 24") pole mounted.	2 EA
	S5-2 "END SCHOOL ZONE" (30" x 36") ground mounted.	2 EA
	W16-9P "AHEAD" sign (12" x 36") ground mounted.	2 EA

The contact persons for District #5 are as follows:

Mr. Lawrence Elliott  
Assistant District Engineer - Traffic  
Phone: (410) 841-1003

Mr. George Charles  
Assistant District Engineer - Maintenance  
Phone: (410) 841-1002

Mr. John Mays  
Assistant District Engineer - Utility  
Phone: (410) 841-1005

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

The power company representative is:

Mr. Mike Malizewski  
BGE  
7317 Parkway Drive, South  
Hanover, Maryland 21076  
Phone: (410) 859-9043

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2001	Class 2 Excavation. (Remove existing sidewalk)	2 C.Y.
6004	4" concrete sidewalk.	50 S.F.
8011	Furnish and install 12" vehicular traffic signal head section	4 EA
8020	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).	1 EA
8030	Furnish and install breakaway pedestal pole (14').	1 EA
8030	Furnish and install breakaway pedestal pole (20').	1 EA
8052	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	60 L.F.
8053	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched.	60 L.F.
8057	Furnish and install concrete for signal foundation.	4 C.Y.
8058	Furnish and install wood sign supports 4" x 4".	144 L.F.
8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	60 L.F.
8071	Furnish and install electrical cable 1-conductor No. 8 AWG - THHN/THWN.	30 L.F.
8072	Furnish and install electrical handhole.	1 EA
8074	Install ground mounted sign.	153 S.F.
8078	Furnish and install connector kit - Type 1.	1 EA
8079	Furnish and install connector kit - Type 2.	1 EA
8080	Furnish and install ground rod - 3/4" x 10'.	2 EA
8083	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	180 L.F.
8091	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched	60 L.F.

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

NONE

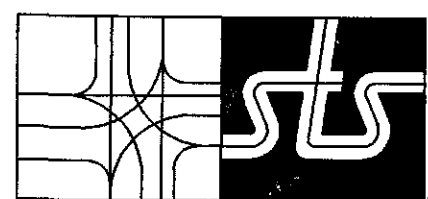


MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

SCHOOL FLASHERS

MD 177 (MOUNTAIN RD) AND OUTING AVENUE



STREET TRAFFIC STUDIES, LTD.

400 Crain Hwy., N.W.

Glen Burnie, MD 21061

Ph (410) 590-5500

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TASK14.DGN

DRAWN BY: STS

CHECKED BY: R. R. ZACHERL

SCALE: NONE

DATE: 12/6/01

F.A.P. NO.

S.H.A. NO.

COUNTY:

LOG MILE:

HA 2501-51

XX1065485

ANNE ARUNDEL

TS NO.

4157

T.I.M.S. NO.

E802

SHEET NO.

2 OF 2